



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

**C3-8-2**  
**Job Sheet 190832**



**Part No:** C3-8-2  
**Part Name:** Solenoid



**Part Weight:** 0 lbs  
**Job Created:** 2/15/19  
**Due Date:** 3/22/19  
**Type:** SOLD

**Job Qty:** 12 pcs

10

DAS  
21  
9-89

**Status:** New

**Priority:** Medium

**Job Tracking No:**

**Created By:** Marie Lajeunesse

**Description:**

**Note:** DWG C3-8-2 Rev 3 IPP Rev A 18.04.06 new issue DP Verify DD

**Ship Via:**

### Bill of Materials

### Job Routing

| Op No | Operation                   | Qty    | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |            | Sign-off            |
|-------|-----------------------------|--------|------------|----------|-----------|---------|-----------------------|------------|---------------------|
|       |                             |        |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time  |                     |
| 100   | Small Fab - 1               | 12 pcs | 3/22/19    |          | 0.00      | 0.60    | Small Fab - 1         | EXT-LOAD-1 | AP 2019-02-26       |
|       |                             |        |            |          |           |         | Small Fab - 2         |            |                     |
|       |                             |        |            |          |           |         | Small Fab - 3         |            |                     |
|       |                             |        |            |          |           |         | Small Fab - 4         |            |                     |
|       |                             |        |            |          |           |         | Small Fab - 5         |            |                     |
|       |                             |        |            |          |           |         | Small Fab - 6         |            |                     |
|       |                             |        |            |          |           |         | Small Fab - 7         |            |                     |
| 110   | QC 5                        | 12 pcs | 3/22/19    |          | 0.00      | 0.00    | QC 5 - 10             |            | Michel              |
|       |                             |        |            |          |           |         | QC 5 - 12             |            |                     |
|       |                             |        |            |          |           |         | QC 5 - 17             |            |                     |
|       |                             |        |            |          |           |         | QC 5 - 18             |            |                     |
|       |                             |        |            |          |           |         | QC 5 - 19             |            |                     |
|       |                             |        |            |          |           |         | QC 5 - 22             |            |                     |
|       |                             |        |            |          |           |         | QC 5 - 24             |            |                     |
|       |                             |        |            |          |           |         | QC 5 - 3              |            |                     |
|       |                             |        |            |          |           |         | QC 5 - 42             |            |                     |
|       |                             |        |            |          |           |         | QC 5 - 43             |            |                     |
|       |                             |        |            |          |           |         | QC 5 - 49             |            |                     |
|       |                             |        |            |          |           |         | QC 5 - 51             |            |                     |
|       |                             |        |            |          |           |         | QC 5 - 58             |            |                     |
| 130   | Packaging 3-1 - Stock - B4B | 12 pcs | 3/22/19    |          | 0.00      | 0.00    | QC 5 - 68             |            | MAR 07 2019 68 9-89 |
|       |                             |        |            |          |           |         | QC 5 - 9              |            |                     |
|       |                             |        |            |          |           |         | QC 5 - 50             |            |                     |
|       |                             |        |            |          |           |         | QC 5 - 30             |            |                     |
|       |                             |        |            |          |           |         | Packaging 3 - 1 - B4B |            |                     |
|       |                             |        |            |          |           |         | Packaging 3 - 2 - B4B |            |                     |
|       |                             |        |            |          |           |         | Packaging 3 - 3 - B4B |            |                     |
|       |                             |        |            |          |           |         | Packaging 3 - 4 - B4B |            | Data #36            |
|       |                             |        |            |          |           |         | Packaging 3 - 5 - B4B |            |                     |
|       |                             |        |            |          |           |         | Packaging 3 - 6 - B4B |            |                     |
|       |                             |        |            |          |           |         | Packaging 3 - 7 - B4B |            |                     |

External Lead



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
CANADA  
TEL: 1 613 632-5200  
Email: sales@dartaero.com  
www.dartaerospace.com

**Container No:** S156744



**Part:** C3-8-2  
**Job No:** 190832  
**Serial No/Batch:** S156744

**Revision:** 3  
**Inspector:**  
**Exp Date:**  
**Instructions:**

**Date:** 02/26/19

|                |        |         |           |                 |                        |             |
|----------------|--------|---------|-----------|-----------------|------------------------|-------------|
|                |        |         |           |                 | Packaging 3 - 8 - B4B  |             |
|                |        |         |           |                 | Packaging 3 - 9 - B4B  |             |
|                |        |         |           |                 | Packaging 3 - 10 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 11 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 12 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 13 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 14 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 15 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 16 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 17 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 18 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 19 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 20 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 21 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 22 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 23 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 24 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 25 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 26 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 27 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 28 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 29 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 30 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 31 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 32 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 33 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 34 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 35 - B4B |             |
|                |        |         |           |                 | Packaging 3 - 36 - B4B |             |
| 140 QC 21 - FG | 12 pcs | 3/22/19 | 0.00 0.00 | QC 21 - FG - 21 | DAG                    | MAR 08 2019 |
|                |        |         |           | QC 21 - FG - 70 | 21                     |             |
|                |        |         |           | QC 21 - SA - 53 | 9-25                   |             |

Part Op 100 - Small Fab - 1-Assemble as per DWG sheet 1. \*\*\*Note 32446 22-16 crimp connectors supplied loose as per note  
 Descriptions: 1\*\*\*

- 110 - QC5- Inspect part completeness to step on W/O  
 130 - Identify as per dwg & Stock Location: \_\_\_\_\_ - Bag and tag  
 140 - QC21- Final Inspection - Work Order Release

GA192

## Job BOM

| Part / Item   | Component Name          | Quantity         | Operation         | Container |
|---------------|-------------------------|------------------|-------------------|-----------|
| 201 32446     | Crimp Terminal          | 20 24 Ea (2 ea)  | 100-Small Fab - 1 | 5090924   |
| 070 92373A143 | Spring Pin              | 10 12 Ea (1 ea)  | 100-Small Fab - 1 | 5060727   |
| 192 C3-8-2-1  | Solenoid                | 10 12 pcs (1 ea) | 100-Small Fab - 1 | 5110914   |
| 192 C3-8-2-2  | Solenoid Pin Spacer -PO | 10 12 pcs (1 ea) | 100-Small Fab - 1 | 5120952   |
| 192 C3-8-3-1  | Spacer                  | 10 12 pcs (1 ea) | 100-Small Fab - 1 | 5107986   |

## Job Allocations

| Operation         | Component Part | Required | Inventory | Allocated |
|-------------------|----------------|----------|-----------|-----------|
| 100-Small Fab - 1 | 32446          | 24       | 806       | 0         |
|                   | 92373A143      | 12       | 53        | 0         |
|                   | C3-8-2-1       | 12       | 10        | 0         |
|                   | C3-8-2-2 -PO   | 12       | 0         | 0         |
|                   | C3-8-3-1       | 12       | 39        | 0         |

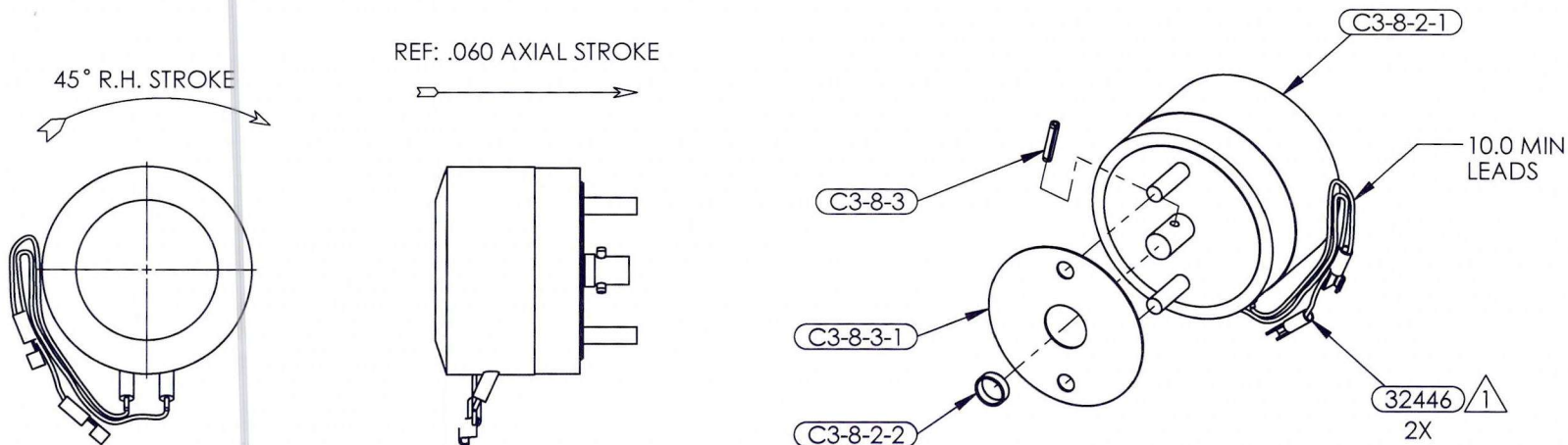
## Part Specifications

Specifications could not be found.



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| REVISIONS |         |                                                                                                                                                                                                                                                                                                                                                                                           |            |         |          |
|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|----------|
| REV       | ECR     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                               | DATE       | INITIAL | APPROVED |
| 1         |         | ADDED SPACERC3-8-31.                                                                                                                                                                                                                                                                                                                                                                      | 10/10/2012 | RJC     | DW       |
| 1A        | 14-0111 | CH'D TITLE BLOCK WAS RED BARN IS DART. ADDED ENGRAVE NOTE. ADDED NOTE <sup>1</sup> .                                                                                                                                                                                                                                                                                                      | 8/7/2014   | DJN     | RW       |
| 2         | 14-0195 | <b>C3-8-2-1</b> CH'D DIM WAS LIMITS Ø.0933-.0937 IS LIMITS Ø.094-.097. ADDED "[CLOCKWISE]" TO NOTE <sup>3</sup> . CH'D NOTE 4 WAS PLACE BUSHING AND PIN IN PLACE AS SHOWN AFTER DRILLING IS INSTALL SPACER AND PIN IN PLACE AS SHOWN ON SHEET 1 AFTER DRILLING. ADDED ENGRAVE BATCH NUMBER NOTE. <b>C3-8-3-1</b> CH'D DIM WAS Ø2.285 IS Ø1.95. CH'D TOLERANCE ON NON-CRITICAL DIMENSIONS. | 10/23/2014 | DPD     | JAG      |
| 3         | 15-0243 | UPDATED TO NEW DRAFTING STANDARDS. <b>C3-8-3-2</b> DELETED; REPLACED WITH <b>32446</b> .                                                                                                                                                                                                                                                                                                  | 8/25/2015  | DPD     | JAG      |



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190832115  
19-02-15

NOTE:

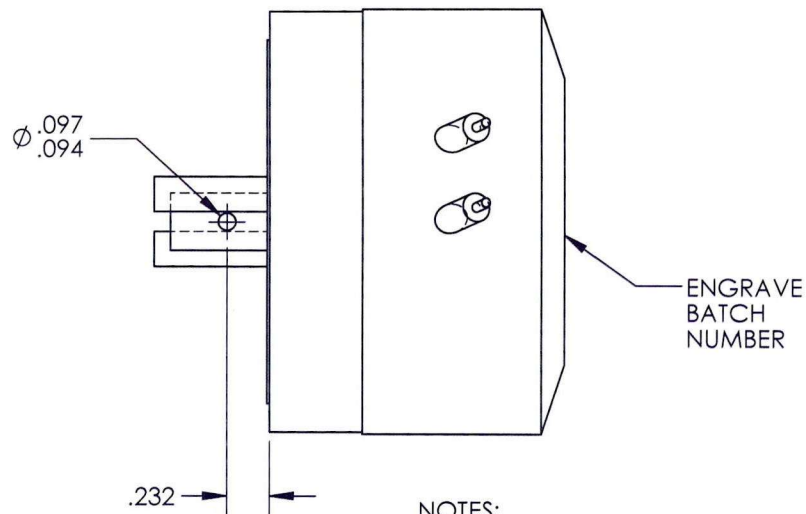
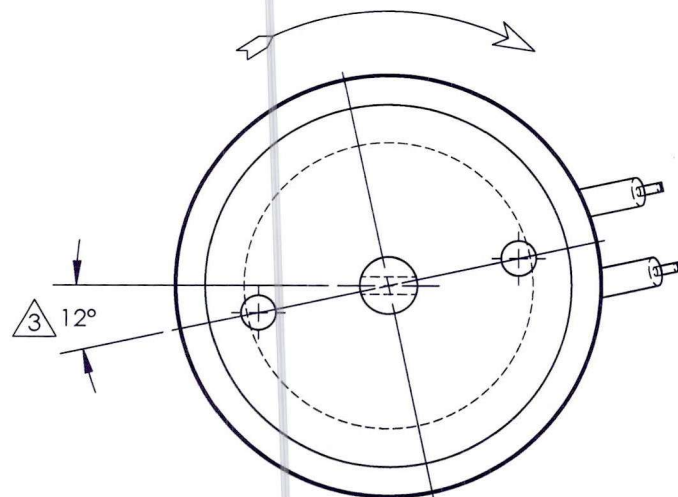
<sup>1</sup> CONNECTIONS SUPPLIED LOOSE.

|                                                                                                                                                                                                                                                                                                  |                                                                                            |                                                                                                                                    |                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>DART AEROSPACE</b>                                                                                                                                                                                                                                                                            |                                                                                            |                                                                                                                                    |                                                                                            |
| TITLE<br><b>SOLENOID ASSEMBLY</b>                                                                                                                                                                                                                                                                |                                                                                            |                                                                                                                                    |                                                                                            |
| DWG NO.<br><b>C3-8-2</b>                                                                                                                                                                                                                                                                         | REV<br><b>3</b>                                                                            |                                                                                                                                    |                                                                                            |
| <table border="1"> <tr> <td>MAT'L<br/>UNLESS OTHERWISE SPECIFIED<br/>DIMENSIONS ARE IN INCHES<br/>.XXX ± .005 FRACTIONS ± 1/8<br/>.XX ± .01 ANGLES ± 5°<br/>.X ± .1</td> <td>DRAWN BY: CANAM<br/>APPROVED <i>D Weil</i><br/>HEAT TREAT<br/>FINISH<br/>SPEC<br/>USED ON MODEL</td> </tr> </table> |                                                                                            | MAT'L<br>UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>.XXX ± .005 FRACTIONS ± 1/8<br>.XX ± .01 ANGLES ± 5°<br>.X ± .1 | DRAWN BY: CANAM<br>APPROVED <i>D Weil</i><br>HEAT TREAT<br>FINISH<br>SPEC<br>USED ON MODEL |
| MAT'L<br>UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>.XXX ± .005 FRACTIONS ± 1/8<br>.XX ± .01 ANGLES ± 5°<br>.X ± .1                                                                                                                                                               | DRAWN BY: CANAM<br>APPROVED <i>D Weil</i><br>HEAT TREAT<br>FINISH<br>SPEC<br>USED ON MODEL |                                                                                                                                    |                                                                                            |
| <table border="1"> <tr> <td>1. BREAK ALL SHARP EDGES .015 x 45° OR .015R</td> <td>2. DIMENSIONAL LIMITS APPLY AFTER PLATING</td> </tr> </table>                                                                                                                                                  |                                                                                            | 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R                                                                                       | 2. DIMENSIONAL LIMITS APPLY AFTER PLATING                                                  |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R                                                                                                                                                                                                                                                     | 2. DIMENSIONAL LIMITS APPLY AFTER PLATING                                                  |                                                                                                                                    |                                                                                            |
| SCALE 1:2                                                                                                                                                                                                                                                                                        | DATE 12/19/2001 SHEET 1 OF 4                                                               |                                                                                                                                    |                                                                                            |

| ASSY QTY | ASSY QTY | B/O | Part #   | UNIT QTY | Description               | Material  | B/O INFORMATION OR SPECIFICATIONS      | PG. |
|----------|----------|-----|----------|----------|---------------------------|-----------|----------------------------------------|-----|
|          |          | B/O | C3-8-2-1 | 1        | SOLENOID                  |           | TESTCO #152951-001                     | 1,2 |
|          |          |     | C3-8-2-2 | 1        | SOLENOID PIN SPACER       | 303 S.S.  |                                        | 3   |
|          |          | B/O | C3-8-3   | 1        | SPRING PIN                | 18-8 S.S. | Ø3/32 X 1/2 (MCMaster-CARR #92373A143) | 1   |
|          |          | B/O | C3-8-3-1 | 1        | SPACER                    | PETG      |                                        | 4   |
|          |          | B/O | 32446    | 2        | 22-16 AWG KNIFE CONNECTOR |           | (ALLIED ELECTRONICS 32446)             | 1   |

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| REVISIONS |         |                                                                                                                                                                                                                                                                               |            |         |          |
|-----------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|----------|
| REV       | ECR     | DESCRIPTION                                                                                                                                                                                                                                                                   | DATE       | INITIAL | APPROVED |
| 2         | 14-0195 | C3-8-2-1 CH'D DIM WAS LIMITS Ø.0933-.0937 IS LIMITS Ø.094-.097. ADDED "(CLOCKWISE)" TO NOTE 3. CH'D NOTE 4 WAS PLACE BUSHING AND PIN IN PLACE AS SHOWN AFTER DRILLING IS INSTALL SPACER AND PIN IN PLACE AS SHOWN ON SHEET 1 AFTER DRILLING. ADDED ENGRAVE BATCH NUMBER NOTE. | 10/23/2014 | DPD     | JAG      |



#### NOTES:

1. USE C3-8-2-F1 FIXTURE FOR DRILLING THE PIN HOLE.
2. REMOVE COIL SPRING BEFORE DRILLING HOLE.
3. TURN SHAFT AS SHOWN IN FIXTURE BEFORE DRILLING (CLOCKWISE).
4. INSTALL SPACER AND PIN IN PLACE AS SHOWN ON SHEET 1 AFTER DRILLING.

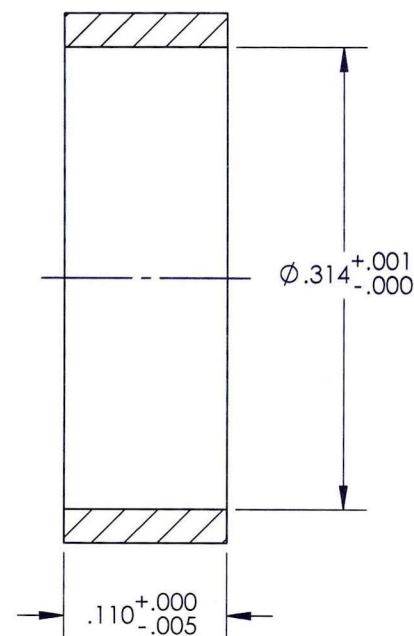
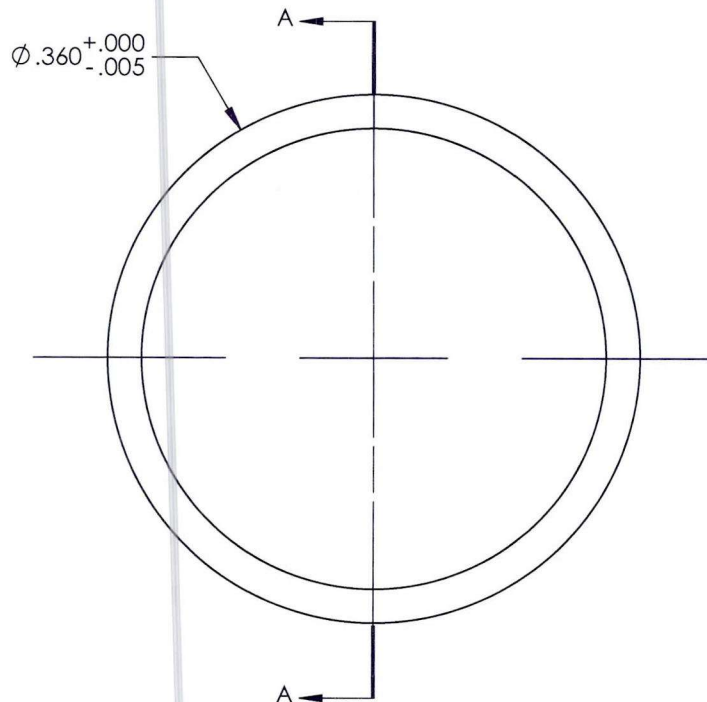
C3-8-2-1

SOLENOID WITH PINNED HOLE

|                                                                                                                                    |                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>DART<br/>AEROSPACE</b>                                                                                                          |                                                                                                    |
| TITLE<br><b>SOLENOID ASSEMBLY</b>                                                                                                  |                                                                                                    |
| DWG NO.<br><b>C3-8-2</b>                                                                                                           | REV<br><b>3</b>                                                                                    |
| MAT'L<br>UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>.XXX ± .005 FRACTIONS ± 1/8<br>.XX ± .01 ANGLES ± 5°<br>.X ± .1 | DRAWN BY: <b>CANAM</b><br>APPROVED: <b>D Weil</b><br>HEAT TREAT<br>FINISH<br>SPEC<br>USED ON MODEL |
| 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R<br>2. DIMENSIONAL LIMITS APPLY AFTER PLATING                                          |                                                                                                    |
| SCALE<br><b>1:1</b>                                                                                                                | DATE<br><b>12/19/2001</b>                                                                          |
| SHEET 2 OF 4                                                                                                                       |                                                                                                    |

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| REVISIONS |     |             |  |  |      |         |          |
|-----------|-----|-------------|--|--|------|---------|----------|
| REV       | ECR | DESCRIPTION |  |  | DATE | INITIAL | APPROVED |



SECTION A-A

C3-8-2-2

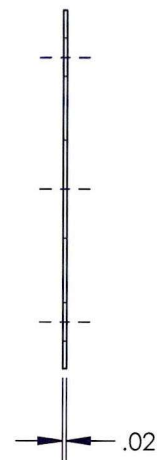
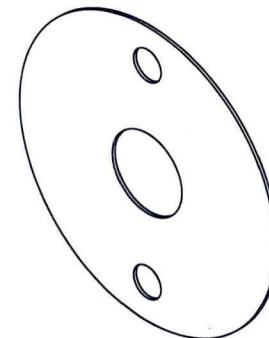
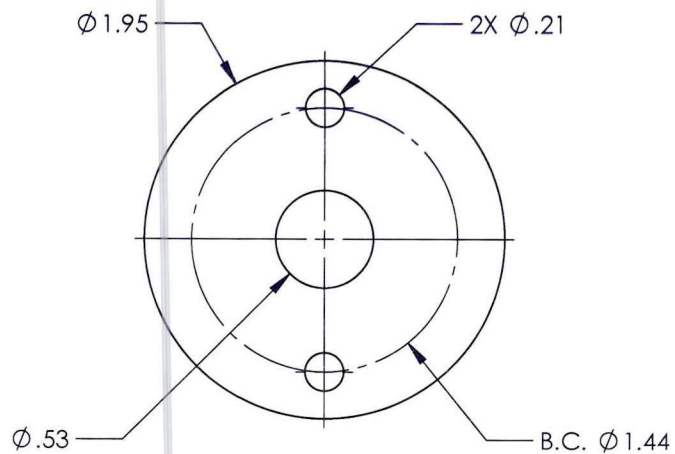
SPACER

|                                                        |                              |
|--------------------------------------------------------|------------------------------|
| <b>DART<br/>AEROSPACE</b>                              |                              |
| TITLE<br><b>SOLENOID ASSEMBLY</b>                      |                              |
| DWG NO.<br><b>C3-8-2</b>                               | REV<br><b>3</b>              |
| MAT'L 303 S.S.                                         | DRAWN BY: CANAM              |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES | APPROVED <i>D Weil</i>       |
| .XXX ± .005 FRACTIONS ± 1/8                            | HEAT                         |
| .XX ± .01 ANGLES ± 5°                                  | TREAT                        |
| .X ± .1                                                | FINISH                       |
| 1. BREAK ALL SHARP EDGES .015 x 45°<br>OR .015R        | SPEC                         |
| 2. DIMENSIONAL LIMITS APPLY AFTER<br>PLATING           | USED ON MODEL                |
| SCALE 8:1                                              | DATE 10/31/2001 SHEET 3 OF 4 |



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| REVISIONS |         |                                        |            |         |          |
|-----------|---------|----------------------------------------|------------|---------|----------|
| REV       | ECR     | DESCRIPTION                            | DATE       | INITIAL | APPROVED |
| 1         |         | ADDED SPACER C-3-8-3-1                 | 10/10/2012 | RJC     | DW       |
| 2         | 14-0195 | C3-8-3-1 CH'D DIM WAS Ø2.285 IS Ø1.95. | 10/23/2014 | DPD     | JAG      |



C3-8-3-1

SPACER

|                                                                                                             |                                                                                      |
|-------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| <b>DART<br/>AEROSPACE</b>                                                                                   |                                                                                      |
| TITLE<br><b>SOLENOID ASSEMBLY</b>                                                                           |                                                                                      |
| DWG NO.<br><b>C3-8-2</b>                                                                                    | REV<br><b>3</b>                                                                      |
| MAT'L PETG<br>UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>.XXX ± .010<br>.XX ± .03<br>.X ± .1 | DRAWN BY:<br>APPROVED <i>D Weil</i><br>HEAT TREAT<br>FINISH<br>SPEC<br>USED ON MODEL |
| 1. BREAK ALL SHARP EDGES .015 x 45°<br>OR .015R<br>2. DIMENSIONAL LIMITS APPLY AFTER PLATING                |                                                                                      |
| SCALE<br>1:1                                                                                                | DATE<br>SHEET 4 OF 4                                                                 |

Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                        |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | MRB (QSI042)           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
| <b>Root Cause</b><br><br><div style="display: flex; flex-direction: column; align-items: flex-start;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Preservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                        |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |